

Wiring Devices and Supplies: 2002

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SUMMARY OF FINDINGS

During 2002, manufacturers' shipments of wiring devices and supplies totaled \$9.1 billion, a decrease of 6 percent from \$9.7 billion in 2001. Current-carrying wiring devices accounted for \$4.9 billion, a decrease of 6 percent from

\$5.2 billion in 2001, while the noncurrent-carrying wiring devices accounted for \$4.2 billion, a decrease of 7 percent under 2001. The 2002 shipments included lampholders, valued at \$127 million, down 18 percent from \$155 million in 2001; convenience and power outlets, valued at \$370 million, remained the same as in 2001; switches, valued at \$1.6 billion, down 2 percent from \$1.6 billion in 2001; metal contacts valued at \$175 million, a decrease of 5 percent from \$184 million in 2001; wire connectors, valued at \$1.2 billion, decreased 14 percent from \$1.4 billion in 2001; other current-carrying wiring devices valued at \$1.4 billion, down 2 percent from \$1.5 billion in 2001; pole line and transmission hardware, valued at \$661 million, down from \$778 million in 2001; electrical conduit and conduit fittings, valued at \$1.9 billion, down from \$2.1 billion in 2001; and other non-current carrying devices, valued at \$1.6 billion, down 4 percent from \$1.7 billion in 2001.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Vance Davis, 301-763-4790.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

U S C E N S U S B U R E A U

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Table 1. Value of Shipments of Wiring Devices and Supplies by Class of Product: 1993 to 2002
[Millions of dollars]

Product code	Product description	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
335931	Current-carrying wiring devices.....	4,899	5,197	5,585	5,396	5,448	5,300	4,836	4,772	4,422	4,087
3359311	Lampholders.....	127	155	156	159	194	194	193	201	211	210
3359313	Convenience and power outlets, both general- and special-purpose, excluding pin and sleeve type.....	370	370	409	415	461	436	375	364	341	314
3359315	Switches for electrical circuitry.....	1,600	1,635	1,869	1,752	1,840	1,775	1,612	1,623	1,526	1,474
3359317	Metal contacts precious and other.....	175	184	246	236	226	214	239	259	245	208
3359319	Wire connectors for electrical circuitry.....	1,210	1,403	1,546	1,517	1,450	1,462	1,235	1,194	1,082	976
335931A	Other current-carrying wiring devices, including attachment plug caps, connector bodies, lightning arrestors, and pin and sleeve convenience power outlets.....	1,417	1,450	1,359	1,317	1,277	1,219	1,182	1,130	1,018	904
335932	Noncurrent-carrying wiring devices.....	4,218	4,552	5,004	4,660	4,463	4,424	3,938	3,915	3,622	3,251
3359321	Pole line and transmission hardware.....	661	778	939	958	852	856	704	673	641	618
3359323	Electrical conduit and conduit fittings.....	1,932	2,079	2,308	2,306	2,126	2,184	1,960	2,050	1,866	1,634
3359325	Other noncurrent-carrying wiring devices and supplies.....	1,625	1,695	1,757	1,396	1,485	1,384	1,274	1,192	1,116	999

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2002		2001	
			Quantity	Value	Quantity	Value
	Wiring devices and supplies.....	(X)	(X)	9,116,380	(X)	9,749,007
335931	Current-carrying wiring devices.....	(X)	(X)	4,898,874	(X)	5,197,286
3359311	Lampholders.....	22	303,710	127,251	349,491 a/r/	155,564
	Incandescent:					
3359311102	Push through and pull types, all materials, threaded, medium base only excluding outlet box type and socket interiors 1/.....	3	(D)	(D)	(D)	(D)
3359311104	Outlet box, threaded, medium base only, pull and keyless types.....	3 a/	14,526	15,442	14,085	15,128
3359311106	Weatherproof, threaded, medium base only.....	3	2,322	2,598	2,432	2,748
3359311108	Candelabra base, all types.....	7	7,072	3,792	6,785	3,742
3359311111	Sign and fixture, medium base only.....	4 a/	6,015	4,616 b/	6,105	5,313
3359311112	All other incandescent, medium, admedium, intermediate, lumiline, miniature, including but not limited to pin-type, cleat, hasp, and socket interiors sold separately, all bases 1/.....	10	71,134	59,592 a/	95,582 r/	82,698
	Fluorescent:					
3359311114	Bi-pin.....	5	166,273	21,920	185,035	24,839
3359311116	Slimline 2/.....	4	(D)	(D)	(D)	(D)
3359311118	Recessed double contact 2/.....	5	(D)	(D)	(D)	(D)
3359311121	All other fluorescent, including but not limited to circlene, panelescent and starter holders 2/.....	5	34,454	16,772	37,100	17,997
3359311122	All other lampholders,including cold cathode neon and bases for quartz lamps.....	3 c/	1,914 c/	2,519 c/r/	2,367 c/r/	3,099
3359313	Convenience and power outlets, both general- and special-purpose, excluding pin and sleeve type.....	10 a/	227,554	369,914	220,546	369,671
3359313102	Receptacles with GFCI (all types, all amperages) 3/.....	2	(D)	(D)	(D)	(D)
3359313104	Receptacles without GFCI: 2-pole, 2-wire 2-pole, 2-wire (flush, all types) 3/.....	4	(D)	(D)	(D)	(D)
3359313106	2-pole, 3-wire and up (flush): Locking, 15 amperes and under 4/.....	3	(D)	(D)	(D)	(D)
3359313108	Locking, 20 amperes and over 4/.....	4 a/	82,118	66,247	83,214	64,862
3359313111	Nonlocking, 15 amperes and under.....	5 b/	75,197	57,255 a/	67,180	54,641
3359313112	Nonlocking, 20 amperes and over.....	6 a/	35,939	60,035	33,467	57,370
3359313114	Appliance and special applications all amperages, all types.....	4	4,825	2,519 b/	7,480 b/	3,970
3359313116	All other types, including dust and explosion proof, surface and 2-pole/ 2-wire 3/.....	5 a/	29,475	183,858 b/	29,205	188,828
3359315	Switches for electrical circuitry.....	68 a/	782,275	1,600,061 a/	819,022	1,634,506
	General use flush-mounted switches, designed for mounting in switch or outlet boxes (except dimmers):					
	Ac (except mercury):					
3359315102	Single pole, 15 amperes and under.....	5 a/	90,172	70,469 a/	93,661	75,446
3359315104	Single pole, over 15 amperes.....	4 a/	11,067	25,385	10,773	26,065
3359315106	Other than single pole, including but not limited to double pole 3-way, 4-way.....	5 a/	43,870	78,700 a/	39,168	70,920
3359315108	Ac-dc (except mercury) 5/.....	2	(D)	(D)	(D)	(D)
3359315111	All other general use switches, including surface mounted, mercury, etc. 5/.....	8 c/	69,793 c/	35,159 c/r/	89,805 r/	46,765
	Special-purpose switches:					
3359315312	Appliance and fixture, including pendant and canopy types and variable speed controls.....	13 b/	54,544 b/	99,695 r/	53,598	109,196

Continued

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2002		2001	
			Quantity	Value	Quantity	Value
3359315314	Precision (1/8-inch gap or less) snap-acting switches, excluding limit switches.....	8	81,283	63,058	73,582	57,460
3359315616	Aircraft types 6/.....	9	(D)	(D)	(D)	(D)
3359315218	Automotive types.....	25	303,178	701,472	a/r/ 315,585	693,744
3359315321	All other special-purpose switches, including foot actuated, light sensing and signal actuated 6/.....	22	b/ 116,628	317,424	b/r/ 131,999	r/ 359,096
Dimmers:						
Incandescent:						
3359315422	Infinitely variable, 600 watts or less.....	6	a/ 8,815	108,082	8,152	103,771
3359315424	Infinitely variable, over 600 watts.....	6	c/ 643	a/ 27,099	647	26,564
3359315426	All other types, including but not limited to portable lamps and high-low switches.....	5	2,282	73,518	r/ 2,052	65,479
3359317	Metal contacts, precious and other.....	17	(S)	174,586	(S)	184,283
3359319	Wire connectors, including connectors used under national electrical application.....	75	34,073,800	1,210,356	35,871,896	1,403,353
3359319102	Pressure connectors, where pressure is applied by screw, cone, or mechanical device.....	23	a/ 537,842	153,632	a/ 522,668	r/ 162,406
3359319104	Compression connectors, uninsulated terminals and splicers, tool installed.....	27	3,659,737	186,011	3,825,555	198,539
3359319106	Preinsulated terminals and splicers, tool installed.....	17	803039	108,805	r/ 1,046,169	140,807
3359319108	Banded or strip terminals and splicers, machine installed.....	12	1,791,783	51,048	a/ 1,778,191	49,066
3359319111	Pigtail connectors, including wire nuts 7/.....	13	(D)	(D)	(D)	(D)
3359319112	Blade or pin type, separable terminations and splicers 7/.....	12	(D)	(D)	(D)	(D)
3359319114	Other wire connectors, n.e.c., including solder type 7/.....	36	28,084,438	710,860	28,699,313	r/ 852,535
335931A	Other current-carrying wiring devices, including attachment plug caps, connector bodies, lightening arrestors, pin and sleeve convenience power outlets, etc.	109	(X)	1,416,706	(X)	1,449,909
Attachment plug caps and flanged outlets, including motor bases, all types; including fused, fuseless, switch, and switchless:						
335931A102	2-pole, 2-wire, all types, general use locking and nonlocking, all amperages.....	7	a/ 16,843	9,160	a/ 29,889	15,859
2-pole, 3-wire and up:						
335931A104	Locking, all amperes.....	6	a/ 850	3,590	701	3,762
335931A106	Locking, 20 amperes and over.....	6	c/ 3,407	19,208	a/ 2,100	16,177
335931A107	Nonlocking, all amperes 8/.....	12	(D)	(D)	(D)	(D)
335931A112	All other types (except pin and sleeve), including dust and explosion proof, appliance and other special application 8/.....	5	c/ 14,724	56,114	b/ 13,952	60,910
Connector bodies and flanged outlets, all types:						
335931A114	2-pole, 2-wire, all types, all amperages.....	4	b/ 921	1,341	b/ 1,111	1,577
2-pole, 3-wire and up:						
335931A116	Locking, 15 amperes and under.....	7	a/ 3,204	26,700	2,827	23,757
335931A118	Locking, 20 amperes and over.....	8	1,027	14,574	975	12,825
335931A119	Nonlocking, all amperes	9	a/ 5,558	20,876	a/ 5,681	22,786
335931A124	All other types, except pin and sleeve, including dust and explosion proof, appliance, and other special application	8	c/ 37,802	c/ 51,337	43,863	58,558
Pin and sleeve convenience and power outlets, attachment plug caps and connector bodies:						

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2002		2001	
			Quantity	Value	Quantity	Value
335931A126	Pin and sleeve, general-purpose (120 volts and over, 20 amperes and over): Convenience and power outlets 9/.....	7	(D)	(D)	(D)	(D)
335931A128	Attachment plug caps.....	6	80	9,093	99	11,833
335931A131	Connector bodies.....	6	477	24,199	472	23,784
335931A132	All other pin and sleeve, including dust and explosion proof 20 amperers types, etc. 9/.....	4	24,879	81,734	12,991	62,982
335931A134	Fluorescent starters.....	4 c/	3,546 c/	846 c/	3,480 c/	811
335931A136	Terminal blocks.....	20	462,819	385,547	446,688 r/	369,980
335931A138	Lightning arrestors for alternating current power transmission systems and substations; U.S. designation, station and intermediate, I.E.C. designation 10ka and 5ka Series A.....	4	(X)	31,943	(X) r/	37,223
335931A141	Lightning arrestors for alternating current power distribution systems and substations; U.S. designation distribution and secondary I.E.C. designation 5ka Series B, 2.5ka and 1.5ka.....	6	(X)	112,587	(X) r/	121,037
335931A144	Surge suppressors, designed for equipment operating on 110/120 volt circuits.....	16	(X) b/	101,216	(X) r/	130,695
335931A146	Electric harnesses and assemblies, excluding engine harnesses (from purchased wire).....	19	(X)	155,207	(X)	195,285
335931A148	All other wiring devices with integral ground fault circuit interrupting capabilities, excluding circuit breakers 10/.....	5	(D)	(D)	(D)	(D)
335931A151	Miscellaneous, including combination devices, adapters, current taps, surface extensions, rosettes, choke coils, rail bonds, and overhead trolley line materials 10/.....	37	(X)	311,434	(X)	280,068
335932	Noncurrent-carrying wiring devices.....	(X)	(X)	4,217,506	(X)	4,551,721
3359321	Pole and transmission line hardware.....	35	(X)	660,604	(X)	778,051
3359321102	Pole and transmission line construction materials, also known as overhead and underground line hardware for electric transmission, distribution, and communication lines.....	27	(X)	495,530	(X)	604,578
3359321104	Pole and transmission line anchors.....	5	(X)	14,533	(X)	16,716
3359321106	All other pole and transmission line hardware.....	11	(X)	150,541	(X)	156,757
3359323	Electrical conduit and conduit fittings.....	66	(X)	1,932,071	(X)	2,078,521
3359323101	Rigid metal conduit, excluding couplings, nipples, bends, and elbows.....	9	239,194	231,296	247,679	236,579
3359323106	Nonmetallic conduit (1,000 lbs).....	13	708,709	291,271	749,400	288,029
3359323108	Electrical metallic (short tons).....	8	465,047	416,188	480,718	410,625
3359323111	Flexible steel and aluminum conduit (1,000 feet).....	6 a/	194,938	67,118	217,257	70,136
3359323112	Flexible nonmetallic conduit (1,000 pounds).....	8	205,415	83,891	212,956	90,528
3359323114	Raceways and wire ways, including fittings, metal.....	11	(X)	118,619	(X)	141,499
3359323116	Ventilated cable tray and accessories.....	6	(X) b/	54,980	(X)	63,643
3359323118	Cast conduit bodies, covers, and gaskets.....	6	(X)	52,075	(X)	58,092
3359323221	Rigid conduit fittings, including couplings, nipples, bends, and elbows: Couplings, connectors, and unions.....	16	(X) b/	90,404	(X) a/r/	84,603
3359323222	Locknuts and bushings.....	7	(X)	22,751	(X)	22,354

Table 2. Quantity and Value of Shipments of Wiring Devices and Supplies: 2002 and 2001
[Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2002		2001	
			Quantity	Value	Quantity	Value
3359323224	All other rigid conduit fittings.....	7	(X)	47,553	(X) r/	76,581
3359323226	Nonmetallic conduit fittings.....	10	(X)	133,353	(X)	144,005
	EMT fittings (couplings and connectors):					
3359323228	Gland type.....	5	(X)	18,840	(X)	24,455
3359323231	Set-screw type.....	5	(X)	21,657	(X)	27,591
3359323232	All others.....	7	(X)	8,711	(X)	9,698
3359323234	Service entrance caps, ells, and connectors.....	7	(X)	6,952	(X)	9,850
	Cable, cord, and flexible conduit fittings:					
3359323236	Armored cable, metallic sheathed cable, and flexible conduit fittings.....	13	(X) a/	137,054	(X) b/r/	182,282
3359323238	Liquid-tight flexible conduit fittings.....	11	(X)	77,049	(X) a/r/	83,180
3359323241	Nonmetallic sheathed cable and cord fittings.....	8	(X)	12,638	(X)	14,023
3359323242	Other electric conduit fittings.....	12	(X)	39,671	(X)	40,768
3359325	Other noncurrent-carrying wiring devices and supplies.....	69	(X) a/	1,624,831	(X) r/	1,695,149
	Stamped metal boxes, covers, and accessories, including stamped conduit boxes:					
3359325102	Switch and receptacle boxes.....	11	(X)	405,622	(X)	422,356
3359325204	Outlet boxes.....	6	(X)	136,852	(X)	136,124
3359325206	Covers.....	8	(X)	38,067	(X)	39,192
3359325208	Supports, bar hangers, and other accessories.....	12	(X)	60,316	(X)	62,235
	Cast metal boxes, covers, gaskets, and accessories:					
3359325311	FS and FD switch and receptacle type....	8	(X)	15,285	(X)	15,707
3359325312	Outlet type.....	6	(X)	42,449	(X)	47,285
3359325314	Junction type.....	13	(X) c/	130,562	(X)	139,960
	Switch, outlet, FM/TV, and telephone wall plates:					
3359325316	Metallic.....	8		49,969 27,657	50,241	28,992
3359325318	Nonmetallic.....	9 a/	449,101	100,971 a/	442,160	100,446
3359325321	Plastic boxes and covers.....	16	(X)	268,024	(X) r/	257,374
3359325322	Floor boxes and covers.....	6	(X)	38,213	(X)	42,254
3359325324	Other noncurrent-carrying wiring devices and supplies.....	32	(X) b/	360,813	(X) r/	403,224

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards. X Not applicable.

1/Product code 3359311102 is combined with product code 3359311112 to avoid disclosing data for individual companies.

2/Product codes 3359311116 and 3359311118 are combined with product code 3359311116 to avoid disclosing data for individual companies.

3/Product codes 3359313102 and 3359313104 are combined with product code 3359313116 to avoid disclosing data for individual companies.

4/Product code 3359313106 is combined with product code 3359313108 to avoid disclosing data for individual companies.

5/Product code 3359315108 is combined with product code 3359315111 to avoid disclosing data for individual companies.

6/Product code 3359315616 is combined with product code 3359315321 to avoid disclosing data for individual companies.

7/Product codes 3359319111 and 3359319012 are combined with product code 3359319114 to avoid disclosing data for individual companies.

8/Product code 335931A107 is combined with product code 335931A112 to avoid disclosing data for individual companies.

9/Product code 335931A126 is combined with product code 335931A132 to avoid disclosing data for individual companies.

10/Product code 335931A148 is combined with product code 335931A151 to avoid disclosing data for individual companies.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Value of Shipments, Exports, and Imports of Selected Wiring Devices: 2002 and 2001
[Millions of dollars]

Product description	Manufacturers' shipments f.o.b. plant 1/	Exports of domestic merchandise at port 1/2/	Imports for consumption 1/3/
2002			
Lampholders.....	127.2	33.7	63.8
Metal contacts.....	174.6	142.6	72.2
2001			
Lampholders.....	155.6	37.0	64.1
Metal contacts.....	184.3	132.8	83.0

1/For comparison of the North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2002

Product code	Production description	Export code 1/	Import code 2/
3359311	Lampholders.....	8536.61.0000	8536.61.0000
3359317	Metal contacts.....	8538.90.7040	8538.90.8040
3359315102, 104, 106, 108, 111, 218, 312, 314, 321, 616	Switches, other than dimmers.....	8535.30.0040 8536.50.9065	8535.30.0040 8536.50.9025 8536.50.9035 8536.50.9050 8536.50.9055 *8536.50.9065
3359315422, 424,426	Dimmer switches.....	*8533.39.0040 8536.50.9040	*8533.39.0040
3359319	Wire connectors.....	8536.69.5050	*8536.69.8000
3359323	Conduit fittings.....	*8547.20.0000 8547.90.0010 *8547.90.0020 *8547.90.0030 *8547.90.0040	8547.20.0000 8547.90.0010 *8547.90.0020 *8547.90.0030 *8547.90.0040

* This code is partially correlated with the products described.

1/Source: Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported for the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2002).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Foodservices
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on wiring devices and supplies have been collected by the Census Bureau since 1960. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.